

CLAIMS

What is claimed is:

1 1. A method for providing directions, comprising:

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3 receiving information identifying a current location
4 of a communication device having short range wireless
5 communication capability; and

6 identifying a direction of movement to be
7 communicated to the communication device to direct it towards
8 a destination.

1 2. The method of claim 1, wherein the direction of
2 movement is transmitted to the communication device.

1 3. The method of claim 1, wherein the transmitting
2 is in accordance with one of a Bluetooth specification and an
3 Infrared Data Association (IrDA) specification.

1 4. The method of claim 1, wherein the transmitting
2 uses a short-range high-frequency radio signal.

1 5. The method of claim 1, further comprising:
2 defining multiple regions within which the direction of
3 movement can be detected.

1 6. The method of claim 1, further comprising:
2 defining a piconet using multiple transceivers.

1 7. The method of claim 1, wherein the
2 communication device is one of a cellular phone, a personal
3 digital assistant, or a portable computer.

1 8. The method of claim 1, further comprising:
2 accessing a map database.

1 9. The method of claim 1, further comprising:
2 accessing a pre-plotted direction database.

1 10. The method of claim 1, further comprising:
2 accessing an alternate direction database.

1 11. The method of claim 10, wherein accessing the
2 alternate direction database is a result of an obstruction.

1 12. The method of claim 1, further comprising:
2 receiving an identification of a location of one of an
3 emergency event and an obstruction.

1 13. The method of claim 12, wherein the receiving
2 the identification includes receiving a signal from one of a
3 multiple of sensors.

1 14. The method of claim 12, wherein the receiving
2 the identification includes receiving a signal from a network.

1 15. The method of claim 1, further comprising:
2 tracking the direction of movement of the communication device
3 relative to the destination.

1 16. The method of claim 15, further comprising:
2 recording tracking information representing the movement of
3 the communication device relative to the destination.

1 17. The method of claim 15, further comprising:
2 determining whether a movement of the communication device is
3 towards the destination.

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1 18. The method of claim 17, wherein, when the
2 movement is not towards the destination, the method includes
3 providing new directions.

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1 19. The method of claim 1, further comprising:
2 receiving information requesting an alternate route.

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1 20. The method of claim 19, further comprising:
2 determining an alternate route for the communication device
3 based on a current location.

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1 21. The method of claim 19, further comprising:
2 determining an alternate route based upon an intended
3 destination.

1 22. The method of claim 1, further comprising:
2 receiving adaptive route calculation information.

1 23. The method of claim 22, further comprising:
2 determining the alternate route using the adaptive route
3 calculation information so as to account for an amount of
4 people flow towards the destination.

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1 24. A directional method, comprising:
2 receiving information identifying a direction of
3 movement within the building relative to the current location.

1 25. The method of claim 24, further comprising:
2 receiving data identifying a direction of movement
3 sent from a fixed communication device.

1 26. A directional method, comprising:
2 inputting into a communication device a desired
3 destination within a building from a current location within a
4 building; and

5 moving from the current location in the identified
6 direction of movement.

1 27. The method of claim 26, further comprising:
2 receiving data identifying a direction of movement sent from a
3 fixed communication device.

1 28. The method of claim 26, further comprising:
2 receiving data identifying a direction of movement during an
3 emergency toward an exit.

1 29. An apparatus for providing directions,
2 comprising:

3 a memory;
4 a program stored in the memory; and
5 a processor in communication with the memory, and
6 configured to execute the stored program such that the
7 apparatus:

8 receives information identifying a current location
9 of a communication device having short range wireless

10 communication capability; and
11 identifies a direction of movement to be
12 communicated to the communication device to direct it towards
13 a destination.

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1 30. The apparatus of claim 29, wherein the
2 direction of movement is transmitted to the communication
3 device.

1 31. The apparatus of claim 29, wherein the device
2 conforms with one of a Bluetooth specification and an Infrared
3 Data Association (IrDA) specification.

1 32. The apparatus of claim 29, wherein the system
2 includes a piconet.

1 33. The apparatus of claim 29, wherein the system
2 includes a scatternet.

1 34. The apparatus of claim 29, wherein the
2 communication device is one of a cellular phone, a personal
3 digital assistant, or a portable computer.

1 35. A system of providing directions, comprising:
2 means for receiving information concerning an
3 obstruction in a directional route provided to a communication
4 device having short range wireless communication capability;
5 and
6 means for determining an alternate direction of
7 movement for the communication device to direct it towards a
8 destination.

1 36. The system of claim 35, further comprising:
2 means for detecting an obstruction in a directional
3 route provided to a communication device having short range
4 wireless communication capability.

1 37. The system of claim 35, wherein emergency
2 evacuation directions are provided.

Sub A 1 38. A system of providing directions, comprising:

2 means for receiving information concerning an
3 obstruction in a directional route provided to a communication
4 device having short range wireless communication capability;
5 and

6 means for determining whether a people flow problem
7 exists.

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